

SEQUENCE LISTING

<110> KUSUNOKI, CHIHIRO
FUKUSHIMA, ATSUSHI

<120> METHOD FOR PREPARING MONOCLONAL ANTIBODY

<130> SHIM-013

<150> JP11-087929

<151> 1999-03-30

<150> JP00/02022

<151> 2000-03-30

<160> 5

<170> PatentIn Ver. 2.1

<210> 1

<211> 1507

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (12)..(1400)

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ccc aga tgg gtc ctg tcc cag gtt cag cta cag cag tgg ggc gca gga	98
Pro Arg Trp Val Leu Ser Gln Val Gln Leu Gln Gln Trp Gly Ala Gly	
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ctg ttg aag cct tcg gag acc ctg tcc ctc acc tgc gct gtc tat ggt	146
Leu Leu Lys Pro Ser Glu Thr Leu Ser Leu Thr Cys Ala Val Tyr Gly	
30 35 40 45	
ggg tcc ttc agt ggt tac tac tgg acc tgg atc cgc cag ccc cca ggg	194
Gly Ser Phe Ser Gly Tyr Tyr Trp Thr Trp Ile Arg Gln Pro Pro Gly	
50 55 60	
aag ggg ctg gag tgg att ggg gaa atc att cat cat gga aac acc aac	242
Lys Gly Leu Glu Trp Ile Gly Glu Ile Ile His His Gly Asn Thr Asn	
65 70 75	
tac aac ccg tcc ctc aag agt cga gtc tcc ata tca gtt gac acg tcc	290
Tyr Asn Pro Ser Leu Lys Ser Arg Val Ser Ile Ser Val Asp Thr Ser	
80 85 90	
aag aac cag ttc tcc ctg aca ctg agc tct gtg acc gcc gcg gac acg	338
Lys Asn Gln Phe Ser Leu Thr Leu Ser Ser Val Thr Ala Ala Asp Thr	
95 100 105	
gct gtg tat tac tgt gcg aga ggg gga gca gtg gct gcg ttt gac tac	386
Ala Val Tyr Tyr Cys Ala Arg Gly Gly Ala Val Ala Ala Phe Asp Tyr	
110 115 120 125	



tgg ggc cag gga acc ctg gtc acc gtc tcc tca gcc tcc acc aag ggc	434
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly	
130 135 140	
cca tcg gtc ttc ccc ctg gcg ccc tgc tcc agg agc acc tcc gag agc	482
Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser	
145 150 155	
aca gcg gcc ctg ggc tgc ctg gtc aag gac tac ttc ccc gaa ccg gtg	530
Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val	
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acg gtg tcg tgg aac tca ggc gct ctg acc agc ggc gtg cac acc ttc	578
Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe	
175 180 185	
cca gct gtc cta cag tcc tca gga ctc tac tcc ctc agc agc gtg gtg	626
Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val	
190 195 200 205	
acc gtg ccc tcc agc aac ttc ggc acc cag acc tac acc tgc aac gta	674
Thr Val Pro Ser Ser Asn Phe Gly Thr Gln Thr Tyr Thr Cys Asn Val	
210 215 220	
gat cac aag ccc agc aac acc aag gtg gac aag aca gtt gag cgc aaa	722
Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys Thr Val Glu Arg Lys	
225 230 235	
tgt tgt gtc gag tgc cca ccg tgc cca gca cca cct gtg gca gga ccg	770
Cys Cys Val Glu Cys Pro Pro Cys Pro Ala Pro Pro Val Ala Gly Pro	
240 245 250	
tca gtc ttc ctc ttc ccc cca aaa ccc aag gac acc ctc atg atc tcc	818
Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser	
255 260 265	
cgg acc cct gag gtc acg tgc gtg gtg gtg gac gtg agc cac gaa gac	866
Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp	
270 275 280 285	
ccc gag gtc cag ttc aac tgg tac gtg gac ggc gtg gag gtg cat aat	914
Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn	
290 295 300	
gcc aag aca aag cca cgg gag gag cag ttc aac agc acg ttc cgt gtg	962
Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Phe Arg Val	
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gtc agc gtc ctc acc gtt gtg cac cag gac tgg ctg aac ggc aag gag	1010
Val Ser Val Leu Thr Val Val His Gln Asp Trp Leu Asn Gly Lys Glu	
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tac aag tgc aag gtc tcc aac aaa ggc ctc cca gcc ccc atc gag aaa	1058
Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ala Pro Ile Glu Lys	
335 340 345	
acc atc tcc aaa acc aaa ggg cag ccc cga gaa cca cag gtg tac acc	1106
Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr	
350 355 360 365	
ctg ccc cca tcc cgg gag gag atg acc aag aac cag gtc agc ctg acc	1154
Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr	

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Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu			
385	390	395	
agc aat ggg cag ccg gag aac aac tac aag acc aca cct ccc atg ctg			1250
Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Met Leu			
400	405	410	
gac tcc gac ggc tcc ttc ttc ctc tac agc aag ctc acc gtg gac aag			1298
Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys			
415	420	425	
agc agg tgg cag cag ggg aac gtc ttc tca tgc tcc gtg atg cat gag			1346
Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu			
430	435	440	445
gct ctg cac aac cac tac acg cag aag agc ctc tcc ctg tct ccg ggt			1394
Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly			
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aaa tga gtgccacggc cggcaagccc ccgctcccca ggctctcggg gtcgcgtgag			1450
Lys			
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 <212> PRT
 <213> Homo sapiens

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Pro	Ser	Glu	Thr	Leu	Ser	Leu	Thr	Cys	Ala	Val	Tyr	Gly	Gly	Ser	Phe
		35					40					45			
Ser	Gly	Tyr	Tyr	Trp	Thr	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu
	50					55				60					
Glu	Trp	Ile	Gly	Glu	Ile	Ile	His	His	Gly	Asn	Thr	Asn	Tyr	Asn	Pro
65					70					75					80
Ser	Leu	Lys	Ser	Arg	Val	Ser	Ile	Ser	Val	Asp	Thr	Ser	Lys	Asn	Gln
				85					90					95	
Phe	Ser	Leu	Thr	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	Tyr
			100					105					110		
Tyr	Cys	Ala	Arg	Gly	Gly	Ala	Val	Ala	Ala	Phe	Asp	Tyr	Trp	Gly	Gln
		115					120					125			
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val
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Phe	Pro	Leu	Ala	Pro	Cys	Ser	Arg	Ser	Thr	Ser	Glu	Ser	Thr	Ala	Ala

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Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser						
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Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val						
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Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro						
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Ser Ser Asn Phe Gly Thr Gln Thr Tyr Thr Cys Asn Val Asp His Lys						
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Pro Ser Asn Thr Lys Val Asp Lys Thr Val Glu Arg Lys Cys Cys Val						
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Glu Cys Pro Pro Cys Pro Ala Pro Pro Val Ala Gly Pro Ser Val Phe						
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Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro						
	260			265		270
Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val						
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Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr						
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Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Phe Arg Val Val Ser Val						
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Leu Thr Val Val His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys						
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Lys Val Ser Asn Lys Gly Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser						
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Lys Thr Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro						
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Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val						
	370			375		380
Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly						
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Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Met Leu Asp Ser Asp						
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Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp						
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Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His						
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Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys						
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